Susan Happersett* (fibonaccisusan@icloud.com). 

Mapping Cubic Lace Drawings.

This presentation will illustrate my process for generating 2-D projections of 3-D cubic lace patterns. Algorithms guide the connections between sets of points around the four sides of a rhombus. I have generalized the algorithms to adapt to rhombi with varying numbers of perimeter points. This allows me to create the illusion of stacking the concentric cubes to create more intricate lattices. These cubic forms become the building blocks to produce a tiled flat surface that seems to both protrude off the plane and recede into the plane. These Cubic Lace Drawings are a continuation of my exploration into the aesthetic qualities of geometric figures using bijective and non-bijective mapping processes. (Received September 04, 2019)